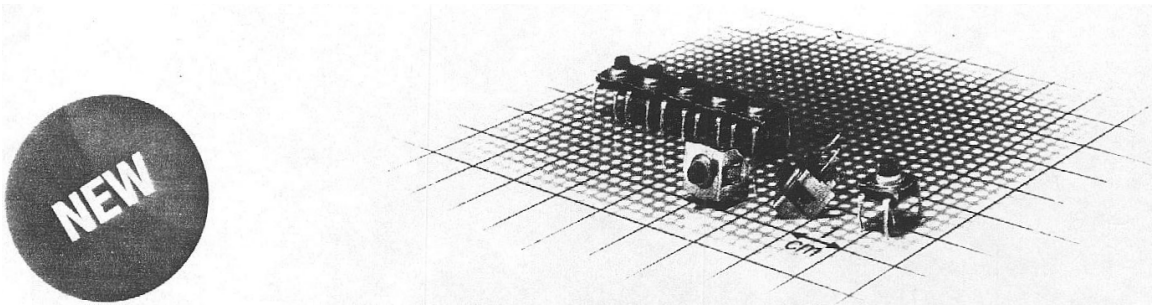
Jameco Part number 155272

# KSI Tact Switch with Soft Actuator




The KSI with soft actuator is a miniature tact switch using the single pole normally open contact of the KSA family and equipped with a silicone actuator.

This new version is designed for all types of applications where a more distinctive tactile effect is required with an actuating force of 3N [300 grams] or 1.1N [110 grams].

**Main applications**

Automative, computer mouse, automation ...

**Main features**

- Electrical data similar to the KSA
- Switching travel: 3N version: 1.1 mm [.043 inch] and 1.1N version: 0.4 mm [.016 inch]
- Total travel: 1.45 mm [.057 inch]
- Actuation force: 3N [300 grams] or 11N [110 grams]
- Actuation force increased of 0.3N [30 grams] for gold contacts
- Sealed against flux
- Salt mist resistance: 96 hours
- Delivered in boxes of 500 pieces

**Option**

- Ground terminal

| | | | |
|---|---|---|---|
| **Construction** | | | |
| Function | | Momentary | |
| Contact arrangement | | 1 make contact = SPST. NO | |
| Distance between button centers, min. | | 7.62 mm [.300 inch] | |
| Terminals | | PC pins | |
| **Electrical data** | | Silver | Gold |
| Switching power max. | | 1 VA | 0.2 VA |
| Switching voltage min./max. | | 20 mV/50 V | 20 mV/50 V |
| Switching current min./max. | | 1 mA/50 mA | 1 mA/10 mA |
| Dielectric strength (50 Hz, 1 Min.) | | • 300 V rms | • 300 V rms |
| Operating life: | 3N version: | • 10%r5%r operations | • 10%r5%r operations |
| | 1.1N version: | • 5 x 10%r5%r operations | • 5 x 10%r5%r operations |
| Contact resistance | | • 50 mΩ | • 50 mΩ |
| Insulation resistance | | • 10%r11%r Ω | • 10%r11%r Ω |
| Bounce-time | | • 1 ms | • 1 ms |
| **Mechanical data** | | | |
| Total travel | | 1.45 ± 0.2 mm [.057 ± .008 inch] | |
| Switching travel | 3N version: | 1.1 ± 0.2 mm [.043 ± .008 inch] | |
| | 1.1N version: | 0.4 ± 0.15 mm [.016 ± .006 inch] | |
| Operating force | | 1.1N [110 grams] ± 25% | |
| | | 3N [300 grams] ± 25% | |
| Maximum admissable operating force | | 40N [4000 grams] | |
| Solderability | | | |
| KSI is protected against flux and is compatible with the following soldering processes: - Fluxing of PCB bottom side - Preheating at 85°C | | - Wave soldering (Pb/Sn 40-60) 250°C 2 sec. - Cooling down to ambient temperature - Eventual cleaning by brushing on soldered Side. TMS Freon to be avoided. | |
| **Further data** | | | |
| Contact material | | Silver or gold | |
| Operating temperature | silver contacts | - 40°C to + 90°C | |
| | gold contacts | - 40°C to + 125°C | |
| Storage temperature | silver contacts | - 55°C to + 90°C | |
| | gold contacts | - 55°C to + 125°C | |

| Ordering code | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|
| | Example: | KS | I | 0 | M | 4 | 1 | 0 |
| 1 | **Designation:** KS | | | | | | | |
| 2 | **Type (soft actuator):** I | | | | | | | |
| 3 | **Ground terminal:** 0 = without, 1 = with | | | | | | | |
| 4 | **Insertion:** M = manual, V = vertical | | | | | | | |
| 5 | **Operation force:** 0 = 1.1 N [110 grams] 4 = 3 N [300 grams] | | | | | | | |
| 6 | **Temperature range:** 1 = low: – 40°C to + 90°C (silver contacts), 3 = high: – 40°C to + 125°C (gold contacts) | | | | | | | |
| 7 | **Sealed:** 0 = against flux, 1 = totally sealed | | | | | | | |

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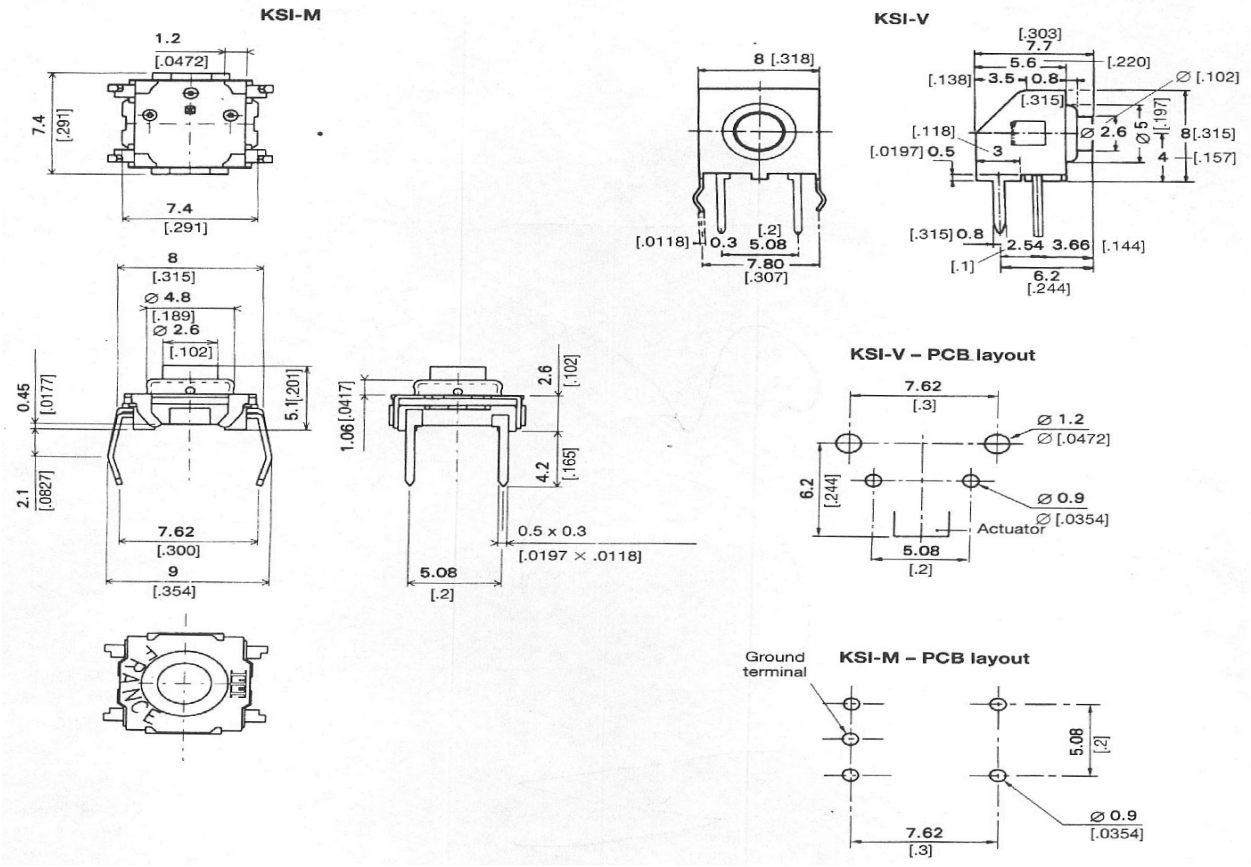
KSI Fact Switch with Soft Actuator

**Dimensional Drawings** Dimensions in mm [inch]




**Curve and PCB mounting**